

Absorption Spectra of Complex Compounds of Noble
Metals (Chlorometallates of the Platinum Group),
by A. V. Babayeva, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 3, 1943, pp 171-177.

SLA 40-14164
CIA/TID XK-813

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DSIR 224 11-1730 (2011)

Sci - Chemistry, Minerals/Metals

Apr 60

USIB INTERNAL USE ONLY

114,138

61-20180

Bazhulin, P. A., Bokshtein, M. F. and others.
OPTICAL METHODS OF INVESTIGATION OF
HYDROCARBONS. III. SPECTRA OF COMBINATION
SCATTERING OF PARAFFINS. [1961] [3]p. 5 refs.
Order from OTS or SLA \$1.10 61-20180

Trans. of Akademlya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1943, p. 198-204.

DESCRIPTORS: *Hydrocarbons, Raman spectroscopy,
Optical spectrometers, Hexanes, Heptanes, Octanes.

(Chemistry--Organic, TT, v. 7, no. 7)

I. Bazhulin, P. A.
II. Bokshtein, M. F.

Office of Technical Services

Iz Ak Nauk SSSR, Otdel Khim Nauk,

Page 271-9 (1943)

CC-3154

Oxidation-Reduction Potentials of the System

$U(SO_4)_2-UO_2(SO_4)$ as Related to the Acidity

of the Solution. by V. G. Khlopin and
A. M. Gurevich.

AEC Trans (avail. Brookhaven)

FT-0026

Notes on Synthesis of Individual Hydrocarbons,
by G. D. Gal'pern, 11 pp

OKN
RUSSIAN, per, Iz Ak Nauk SSSR, No 4, 1943,
pp 280-285.

SLA 61-16910

CIA/FDD/X-1621

23,659

Scientific - Chemistry

May 55 CTS

1. I. I. and Blagina, N. V.
 2. EFFECT OF THE COMPOSITION OF THE CONTACT
 3. AND THE NATURE OF THE CARRIER ON THE
 4. ACTIVITY AND THE STABILITY OF THE CATALYST
 5. 100% COPPER-THIOUA-POTASSIUM CARBONATE IN
 6. THE SYNTHESIS OF LIQUID HYDROCARBONS FROM
 7. CARBON MONOXIDE AND HYDROGEN. [1961] 7p.
 8. 100%

9. Translated from OIS in ISA 51.10

61-16912

10. Journal of Akademiya Nauk SSSR. Otdelente
 11. Khimicheskikh Nauk (Zvezdy), 1943, p. 305-311.

12. HYDROCARBONS, Synthesis, Carbon
 13. compounds, Hydrogen, Chemical
 14. synthesis, Catalysts, Stability, Properties, Iron,
 15. Copper, Platinum compounds, Oxides, Potassium
 16. compounds, Carboxates.

17. Preparation of 16 catalysts of the composition Fe-Cu-
 18. ThO₂-K₂CO₃-carrier is reported, which were tested
 19. (Chemistry--Organic, TT, 5-10-61) (over)

61-16912

1. I. I. and Blagina, N. V.
 2. Blagina, N. V.

101/76

Office of Technical Services

Iz Ak Nauk SSSR, Otdel Khim Nauk,

page 381-8 (1943)

CC-3154

Oxidation-Reduction Potentials of the System
 $U(SO_4)_2-(SO_4)_3$ depending on the Acidity of the

Solution. by V. G. Khlopin and A. M. Gurevich.

AEC Trans (avail. Brookhaven)

BT-2037

Motseev, P. S. and Shamrai, F. I.
THE CORROSION RESISTANCE OF ALUMINUM-
LITHIUM ALLOYS. 24 May 60 [9]c. (figs. omitted)
13 refs.

Order from GTS or SLA \$1.10

62-18772

Trans. of Akademiya Nauk SSSR. Otdelenie Khimich-
eskikh Nauk. Izvestiya 1943, p. 410-414.

DESCRIPTORS: *Lithium alloys, *Aluminum alloys,
*Corrosion-resistant alloys, *Corrosion inhibition.

(Metallurgy--Corrosion, TT, v. 9, no. 7)

62-18772

I. Motseev, P. S.
II. Shamrai, F. I.

Office of Technical Services

Rubinshtein, A. M.
X-RAY STUDY OF MAGNESIUM OXIDE CATALYSTS.
[1961] 7p. 23 refs.
Order from OTS or SLA \$1.10

61-18190

Trans. of Akademiya Nauk SSSR, Otdelenie
Khimicheskikh Nauk, Izvestiya 1943, p. 427-433.

DESCRIPTORS: Magnesium compounds, *Oxides,
*Catalysts, X-ray diffraction analysis, Crystal
structure.

Correlation of the data pertaining to catalytic conversion of ethyl alcohol on 41 samples of a catalyst prepared from magnesium oxide, but differing in their mode of formation, with the physical structure of these preparations supports the assumption of the existence of an optimal dispersion for heterogeneous catalytic conversions. For the reactions investigated the max-
(Chemistry--Physical, TT, v. 6, no. 6) (over)

61-18190

I. Rubinshtein, A. M.

176607

Office of Technical Services

Vereshchagin, L. F. and Zelinakii, N. D.
INVESTIGATION OF CHEMICAL REACTIONS AT
HIGH TEMPERATURES UNDER SUPERHIGH PRES-
SURES. I. APPARATUS FOR THE STUDY OF CHEM-
ICAL REACTIONS UNDER PRESSURES UP TO 5,000
atm. AND AT HIGH TEMPERATURES. [1961] 8p.
(1 fig. omitted) 7 refs.
Order from OTS or SLA \$1.10

61-18189

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk (Izvestiya), 1943, p. 443-452.

DESCRIPTORS: *Chemical reactions, *High pressure
research, *High temperature research, *High pres-
sure compressors, Hydraulic systems, Design.

In equipment for the study of chemical reactions under
pressures of up to 5,000 atm and at high temperatures,
no mercury seal can be used for closure of the space
containing the fluid, which transmits the pressure of
the compound under study. The authors developed
apparatus which permits employment of compressed
(Engineering-Chemical, TT, v. 6, no. 7) (over)

61-18189

I. Vereshchagin, L. F.
II. Zelinakii, N. D.
III. Title: Apparatus ...

Office of Technical Services

Utilization of Microradiographic Methods for Investigation of the Nature of Distribution of Radioactive Elements in Natural Objects, by V. I. Baranov, A. P. Zhdanov, M. Yu. Deizenrot-Mysovskaya, 7 pp.

RUSSIAN, no per. Iz Ak Nauk SSSR, Otdel Khim Nauk,
Vol 1, 1944, pp 20-28.

Sci Trans Center RT-104

USSR
Scientific - Geophysics

Jan 54 CTS

8688

Pushlenkov, M. F.
EFFECT OF ELECTRICAL DISCHARGE UPON THE
COOL FLAME OXIDATION OF BUTANE. [1961] 7p.
15 refs.
Order from OTS or SLA \$1.10

61-18177

Trans. of Akademiya Nauk SSSR, Otdeleniye Khimi-
cheskikh Nauk (Izvestiya), 1944, [no. 1] p. 122-128.

DESCRIPTORS: *Butanes, Oxidation, Electric dis-
charges, Flames, Electric discharges.

The effect of the silent electrical discharge upon the
cool flame oxidation of butane was studied and a pro-
nounced decrease in the induction period of inflamma-
tion was established. This effect is apparently due to
the additional active centers originated. Some expan-
sion of the inflammability region was revealed. (Author

(Chemistry--Organic, TT, v. 6, no. 6)

61-18177

I. Pushlenkov, M. F.

176605

Office of Technical Services

Petrov, A. D., Koptev, V. I., Kaplan, E. P.
SYNTHESIS AND PROPERTIES OF ISOPARAFFINS
WITH FROM 9 TO 12 CARBON ATOMS. [1961] 5p.
12 refs.

Order from OTS or SLA \$1.10

61-18176

Trans. of Akademiya Nauk SSSR, Otdelenie Khimi-
cheskikh Nauk [Izvestiya], 1944 [no. 1] p. 152-155.

DESCRIPTORS: *Hydrocarbons, Synthesis, Molecular
isomerism, Antiknock, Properties.

Synthesis of five isoparaffins with from 9 to 12 carbon
atoms and different extent of branching of the chain was
effected through the tertiary alcohols by a Grignard
reaction; of these, 2, 2, 3, 5-tetramethylhexane was
synthesized for the first time. It was shown that hydro-
carbons of the above mentioned composition possessing
two quaternary carbons or one quaternary and two
tertiary carbon atoms have high octane numbers of the
order of about 100. (Author)

(Chemistry--Organic, TT, v. 6, no. 6)

61-18176

I. Title: Isoparaffins
I. Petrov, A. D.
II. Koptev, V. I.
III. Kaplan, E. P.

176604

Office of Technical Services

Petrov, A. D. and Vittikh, M. V.
SYNTHESIS AND PROPERTIES OF ISOPARAFFIN
HYDROCARBONS WITH 13 TO 24 CARBON ATOMS IN
THE MOLECULE. [1961] 5p. 6 refs.
Order from OTS or SLA \$1.10

61-18174

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. (Izvestiya), 1944 [no. 1] p. 238-242.

DESCRIPTORS: *Hydrocarbons, Molecular isomerism,
Synthesis, Properties.

On the example of six isoparaffins with a T-like struc-
ture containing from 13 to 24 carbon atoms in the
molecule, for the most part newly synthesized com-
pounds, it was demonstrated that the hydrocarbons of
this type with from 21 to 24 carbon atoms are dis-
tinguished by cetene numbers close to 100 and
sufficiently low pour points. (Author)

(Chemistry--Organic, TT, v. 6, no. 6)

61-18174

1. Title: Isoparaffins
I. Petrov, A. D.
II. Vittikh, M. V.

176603

Office of Technical Services

62-14141

Vol'fkovich, S. I.
WORK OF THE INSTITUTES AND LABORATORIES
OF THE DEPARTMENT OF CHEMISTRY OF THE
ACADEMY OF SCIENCES U. S. S. R. [1962] 4p.
Order from OTS or SLA \$1.10 62-14141

[Condensed] trans. of Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya, 1944, no. 2/3,
p. 156-169.

DESCRIPTORS: *Scientific research, Inorganic sub-
stances, Organic compounds, Colloids, Electrochemis-
try, Physical chemistry, Geochemistry, Radium.

Excerpts of a report made to the general meeting of the
Academy of Sciences on February 18, 1944, are given.

(Chemistry, TT, v. 8, no. 7)

I. Vol'fkovich, S. I.

Office of Technical Services

The Investigation of Catalysis for the Hydrogenation
of CO by Joint Application of the Dynamic and the
Static Method. I. Study of the Activity of the
Complex Fe-Cu-ThO₂-K₂CO₃ Kieselguhr-Catalyst, by
A. T. Eidus, 21 pp.

RUSSIAN, ^Yper, Iz Ak Nauk, Otdel Khim Nauk, No 4,
1944, pp 255-262.

CIA/FDD/X-1159

OTS 61-12173

Scientific - Chemistry

CTS/DEX

8172
176602
Available in CIA Library
as Ohio State University
C 27830

Bogatskii, D. P.

THE FUNDAMENTALS OF A NEW COMPLEX
METHOD FOR THE CHEMICAL TREATMENT OF
OXIDIZED NICKEL-COBALT ORES WITH EM-
PLOYMENT OF SULPHUROUS GAS. [1963] 15p.
(figs. omitted) 12 refs.

Order from OTS or SLA \$1.60

63-14098

Trans. of Akademiya Nauk SSSR. Otdeleniye
Khimicheskikh Nauk. Izvestiya, 1944, p. 272-282.

DESCRIPTORS: *Ores (Metal sources), *Nickel,
*Cobalt, *Oxides, Separation, *Sulfuric acid, *Gases,
*Reduction (Chemistry).

There is proposed an experimentally-verified original
method for the complex processing oxidized nickel-
cobalt ores with employment of waste sulphurous gas
according to the scheme: direct reduction followed by
leaching with a weak solution of sulphuric acid. There
(Metallurgy--Nonferrous Metals, TT, v. 10, no. 5) (over)

63-14098

I. Bogatskii, D. P.

Office of Technical Services

System Na_2SO_4 - Na_2CO_3 - NaCl -(NaOH - H_2O) and Its
Application to the Removal of NaCl From NaOH ,
by S. Z. Makarov and L. S. Itkina.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR. Otdel Khim
Nauk, No 5, 1944, pp 283-295.

Assoc Tech Sv Tr RJ-86

Scientific - Chemistry

Mar 53 CTS

\$18.75 (\$2.90)

Izvest Akad Nauk, SSSR, Otdel Khimicheskikh

1944, pp 296-308

Done by AEG

K-25 The chemical nature of the Ternary
T phase in the aluminium magnesium,
zinc system, by V. J. Mikheeva and
O. N. Kryukova.

The Absorption Spectra of Aqueous Solutions of Salts
and Complex Compounds of Throium, by Yu. M.
Tolmachev, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, 1944,
PP 320-324.

ABC Tr 1879
SLA RT-2144

RUSSIAN to FRENCH
OTS TT-62-28798
Scientific - Chemistry
CTS/DEX

14,365

Gal'pern, G. D.
APPLICATION OF THE ABBÉ REFRACTOMETER AND
THE WALDMANN COEFFICIENT TO THE DISPERSI-
METRY OF HYDROCARBONS. [1961] 7p. 10 refs.
Order from OTS or SLA \$1.10 61-16228

Trans. of Akademiya Nauk SSSR. Otdelenie Khimiches-
kikh Nauk. Izvestiya, 1944, p. 331-337.

DESCRIPTORS: *Hydrocarbons, *Refractometers,
Petroleum, Refractive Index, Fractionation.

(Engineering--Chemical, TT, v. 6, no. 6)

61-16228

L. Gal'pern, G. D.

176616

Office of Technical Services

The Investigation of Catalysts for the Hydro-
genation of CO by Joint Application of the Dynamic
and the Static Method. II. Study of the Activity
of Catalysts Consisting of Components of a Complex
Fe-Cu-ThO₂-K₂CO₃-Kieselguhr-Catalyst, by Ia. T.
Eidus, 12 pp. ³

Y
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel ~~Kh~~ Khim Nauk,
No 5, 1944, pp 349-354.

8. 10,982
Sci Trans Center RT-616

Scientific - Chemistry CTS/DEX

SLA 61-12126

Synthesis of Organometallic Compounds by Method of Binary
Ammonium Salts Report XVI, Synthesis of Organo-
ammonium Compounds, by A. N. Mamedjanov, K. A. Kocheshkov,
1952.

Chem. per, Iz Ak Nauk SSSR, Otdel Khim Nauk, Vol VI,
1952, pp 486-493.

MIN

Chemistry - Chemistry

Sep 53 CTS

5456

61-18192

Shulkin, N. I.
NEW OBSERVATIONS ON CATALYTIC CONVERSIONS
OF SIX-MEMBERED TO FIVE-MEMBERED RINGS.
[1961] 7p. 29 refs.
Order from OTS or SLA \$1.10

61-18192

Trans. of Akademiya Nauk SSSR. Otdelente Khimicheskikh Nauk. Izvestiya, 1944, p. 440-445.

DESCRIPTORS: Hydrocarbons, Monocyclic compounds,
*Cyclohexenes, *Cyclopentenes, Molecular isomerism,
Chemical reactions, Catalysts.

When cyclohexyl chloride is contacted with alumina containing 10 per cent ferric oxide at 300°, a virtually complete elimination of hydrogen chloride takes place. This reaction is accompanied by isomerization of the cyclohexene formed, yielding 1-methyl-1-cyclopentene as the principal product and 1-methyl-2-cyclopentene in subordinated quantities. Hydrogen chloride, elimi-

I. Shulkin, N. I.

176608

Office of Technical Services

Preparation of Producer Gas Free of Tar, by
N. K. Grodzovskiy, D. H. Samoilovich.

RUSSIAN, per, 12 Ak Taul SSSR, Otdel Tekhn Nauk,
~~XXXXXXXXXX~~ No 1, 2, 1945

Dept of Interior
TN7 E57 No 681

Sci- Fuels

Nov 65

Denisenko, Ya. I. and Naber, A. D.
SYNTHESIS OF HYDROCARBONS OF THE
PHENYL CYCLOPENTANE SERIES. [1961] 6p. 22 refs.
Order from OTS or SLA \$1.10 61-18199

Trans. of Acad. Sci. USSR, Chem. USSR
Acad. Sci. USSR, 1961, No. 1, p. 35-43

The synthesis of hydrocarbons is found in
the literature. The authors studied, including the re-
action of some of them on acid catalytic hydrogenation
of cyclopentadiene, 1-cyclopentylpropane, 1-2-methylcyclopentane,
1-cyclopentyl-2-methylcyclopentane, 1-cyclo-
hexylpropane, 1-2-methylcyclopentane and 2-methyl-1-cy-
(Chemist. p-Organic, TT, 61-18199) (over)

61-18199

I. Denisenko, Ya. I.
II. Naber, A. D.

181864

Office of Technical Services

Zelinskii, N. D. and Vereshchagin, L. F.
INVESTIGATION OF CHEMICAL REACTIONS AT
HIGH TEMPERATURES UNDER SUPERHIGH PRES-
SURES. II. POLYMERIZATION OF CYCLOHEXENE
AND VINYL CYCLOHEXENE. [1961] 9p. 13 refs.
Order from OTS or SLA \$1.10 61-18205

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1945 (no. 1) p. 44-51.

DESCRIPTORS: *Cyclohexenes, Vinyl radicals,
*Polymerization, Polymers, *High temperature re-
search, *High pressure research, *Chemical reactions.

The study of polymerization of cyclohexene, vinylcyclo-
hexene and unsaturated compounds of synthin showed
that polymerization of cyclohexene under pressures up
to 4,000 kg/sq cm and temperatures up to 350° C is
independent of the pressure. The polymers isolated do
not differ from those obtained by thermal polymerization
(Chemistry--Organic, TT, v. 6, no. 6) (over)

61-18205

I. Zelinskii, N. D.
II. Vereshchagin, L. F.
III. Title: Polymerization...

176609

Office of Technical Services

61-18219

Freidlin, L. Kh., Balandin, A. A. and others.
CATALYTIC SUBSTITUTION OF HALOGEN BY A
HYDROXYL IN THE AROMATIC SERIES.
I. CATALYTIC ACTIVITY OF SILICA GELS AND
THEIR INACTIVATION. [1961] 9p. 17 refs.
Order from OTS or SLA \$1.10

61-18219

Trans. of Akademiy Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya 1945 [no. 1]
p. 53-60

DESCRIPTORS: Benzenes, Chlorides, Hydrolysis,
Phenols, Silicon compounds, Dioxides, *Gels,
*Catalysis.

The catalytic activity of silica gels in vapor phase
hydrolysis of chlorobenzene and their inactivation was
studied. Silica gel prepared according to Okatov was
found to possess a considerable catalytic activity in
this process. The yield of phenol in its presence
(Chemistry--Organic, TT, v. 6, no. 6) (over)

I. Freidlin, L. Kh.
II. Balandin, A. A.
III. Title: Catalytic...

SL# TT-64-10277

176615

Office of Technical Services

61-18236

I. Eidus, Ya. T.

Eidus, Ya. T.
INVESTIGATION OF CATALYSTS FOR HYDROGENA-
TION OF CARBON MONOXIDE BY SIMULTANEOUS
APPLICATION OF THE DYNAMIC AND STATIC
METHODS. III. THE PART PLAYED BY THE ALKA-
LINE ACTIVATOR IN THE FORMATION OF THE
SURFACE OF THE CATALYST IRON-COPPER-
THORIA-POTASSIUM CARBONATE-KIESELGUHR
[Issledovanie Katalizatorov Gidrirovaniya Oksii Ugle-
roda Sovmestnym Primeneniiem Dinamicheskogo i
Staticheskogo Metodov Soobshchenie 3]. [1961] 10p.
36 refs.

Order from OTS or SLA \$1.10

61-18236

Trans. of Akademiya Nauk SSSR, Otdelenie Khimi-
cheskikh Nauk i Izvestiya, 1945, p. 62-70.

DESCRIPTORS: *Catalysts, Carbon compound, *Mon-
oxides, *Hydrogenation, Hydrocarbons, Synthesis,
*Iron catalysts Surface properties, Iron, Copper,
Thorium compounds, Oxides, Potassium compounds,
(Chemistry--Physical, TT, v. 6, no. 7) (over)

Office of Technical Services

61-18220

Arbuzov, B. A. and Zoroastrova, V. M.
DIENE COMPOUNDS. I. SIMULTANEOUS ACTION
OF CHLORINE AND ETHYLENE OXIDE ON 1,
3-BUTADIENE. [1961] 4p. 21 refs.
Order from OTS or SLA \$1.10 61-18220

Condensed trans. of Akademiya Nauk SSSR.
Otdelenie Khimicheskikh Nauk. (Izvestiya, 1945, [no. 1]
p. 113-118.

DESCRIPTORS: Butadienes, Chlorine, Ethylene
oxide, Chemical reactions.

Simultaneous action of chlorine and ethylene oxide on
1, 3-butadiene yields chlorine addition products of
butadiene and also compounds resulting from addition
of 1 or 2 molecules of β -chloroethyl hypochlorite;
when one molecule of the hypochlorite is combined, its
component parts add in position 1, 2 or 1, 4. From
(Chemistry--Organic, TT, v. 6, no. 7) (over)

I. Arbuzov, B. A.
II. Zoroastrova, V. M.
III. Title: Simultaneous...

181513

Office of Technical Services

61-18221

Arbuzov, Yu. A., Zelinskii, N. D., and Shulkin, N. I.
OXIDATION OF CYCLOHEXENE WITH SELENIOS
ACID: A NEW METHOD OF PREPARATION OF 1,3-
CYCLOHEXADIENE. [1961] 4p. 16 refs.
Order from OTS or SLA \$1.10

61-18221

I. Arbuzov, Yu. A.
II. Zelinskii, N. D.
III. Shulkin, N. I.
IV. Title: New ...

Condensed trans. of Akademii Nauk SSSR. Otdeleni
Khimicheskikh Nauk. Izvestiya, 1945, p. 163-166.

DESCRIPTORS: *Cyclohexenes, Oxidation, *Cyclohexa-
dienes, Synthesis, Acetates, Selenious acid.

Conditions were determined under which methods of
preparation of 1,3-cyclohexadiene, the acetate of 1-cy-
clohexen-3-ol and the diacetate of cyclohexenediol re-
ported in the literature can be improved and higher
yields of these products obtained.

(Chemistry--Organic, TT, v. 6, no. 9)

Office of Technical Services

153427

Some Branching Chain Reactions, 17 pp. by H. P.
Semenov

Iz AK Nauk,
RUSSIAN, bull, Acad Sci (USSR), Izvestia. Chemical
Series, No 3, 210-22 (1945)

07/11/45

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ATC TO-94

Scientific - Chemistry

Nesmeyanov, A. N. and Borisov, A. Ye.
SYNTHESIS AND STRUCTURE OF THE PRODUCTS
FROM THE REACTION OF ANTIMONY PENTA-
CHLORINE AND ACETYLENE. 14 Mar 61, 6p.
Order from LC or SLA mi\$1.80, ph\$1.80 61-14473

Partial trans. (p. 254-259) of Akademiya Nauk SSSR
Otdeleniye Khimicheskikh Nauk. Izvestiya 1945
(no. 3) p. 251-[260].

61-14473

1. Antimony chlorides--
Chemical reactions
 2. Acetylenes--Chemical
reactions
 3. Stibine--Synthesis
- I. Nesmeyanov, A. N.
 - II. Borisov, A. Ye.

151882

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 12)

61-18231

Terenin, A. N. and Kachur, L. A.
LUMINESCENCE IN CATALYTIC OXIDATION OF
VAPORIZED ORGANIC COMPOUNDS. [1961] 8p.

9 refs.

Order from OTS or SLA \$1.10

61-18231

- I. Title: Chemiluminescence
- I. Terenin, A. N.
- II. Kachur, L. A.

Trans. of Akademiya Nauk SSSR, Otdelenie
Khimicheskikh Nauk, Izvestiya, 1945, p. 271-278.

DESCRIPTORS: Magnesium compounds, *Oxides,
*Alcohols, Oxidation, *Organic compounds,
*Luminescence, Catalysts.

When a mixture of vapors of ethanol with air is passed
over an aerogel of magnesium oxide at 350-400°
luminescence of the aerogel is observed, the intensity
of which directly depends upon the concentration of
vapors of alcohol and of oxygen. Various gaseous
products of oxidation of alcohol are simultaneously
(Chemistry--Physical, TT, v. 6, no. 6) (over)

176617

Office of Technical Services

Molecular Weight of Cellulose, by O. P. Golova,
V. I. Ivanov, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 3, 1945, pp 279-281.

Sci Trans Center RT-489

Scientific - Physics
CTS/DEX

10,900

E.A.N. OREN

4, pp 289-296 (1945)

Distribution of Electron Density in Metallic
Aluminum

N.W. Ageev
L.N. Sussera

OC Digest # X —
Copy in files

Abramov, V. S.
INTERACTION OF CYCLONES WITH COMPOUNDS
CONTAINING THE VINYL RADICAL. [1962] [2]p.
5 refs.
Order from OTS or SLA \$1.10 62-14143
[Condensed] trans. of Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya, 1945, no. 4, p. 330-338
DESCRIPTORS: *Vinyl radicals, Chemical reactions,
Cyclones, Cyclopentanones.

(Chemistry--Organic, TT, v. 8, no. 7)

62-14143

I. Abramov, V. S.

Office of Technical Services

61-18886

Vereshchagin, L. F. and Preobrazhenskii, V. A.
CHEMICAL REACTIONS AT HIGH TEMPERATURES
AND PRESSURES. III. EQUIPMENT FOR OXIDATION
WITH OXYGEN UNDER PRESSURES UP TO 1,500
ATMOSPHERES: STUDY OF THE METHOD OF OXI-
DATION OF ORGANIC COMPOUNDS. [1961] 5p.
10 refs.

Order from OTS or SIA \$1.10

61-18886

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. (Izvestiya) 1945, p. 359-363.

DESCRIPTORS: *Cyclohexenes, Oxidation, Chemical
reactions, Temperature, Pressure, *Oxygen, Labo-
ratory equipment, Organic compounds.

Equipment was designed with which oxygen pressures
of up to 1500 atm can be reached. With the aid of this
apparatus some experiments of oxidation of cyclo-
(Chemistry--Organic, TT, v. 6, no. 11) (over)

I. Vereshchagin, L. F.
II. Preobrazhenskii, V. A
III. Title: Equipment...
IV. Title: Study...

Office of Technical Services

Freidlin, L. Kh., Balandin, A. A. and others.
CATALYTIC SUBSTITUTION OF A HALOGEN BY A
HYDROXYL IN THE AROMATIC SERIES. II. PRO-
MOTERS OF SILICA GEL. [1961] 8p. 10 refs.
Order from OTS or SLA \$1.10

61-18887

Trans. of Akademiya Nauk SSSR, Otdeleniye Khimi-
cheskikh Nauk i Izvestiya, 1945, p. 375-383.

DESCRIPTORS: *Benzenes, *Chlorides, Chemical
reactions, *Silicon compounds, *Dioxides *Gels,
Calcium compounds, Barium compounds, Magnesium
compounds, Catalysts, Catalysts, *Halogens, *Hydrox-
ides, Substitution reactions.

Tests of the effect exerted by various salts on the
activity of silica gel in vapor phase conversion of
chlorobenzene at 450-600° revealed that these addi-
tions almost invariably reduce the catalytic activity of
silica gel. Some salts, such as lithium chloride, in-
(Chemistry--Organic, TT, v. 6, no. 11) (over)

61-18887

63-18681

I. Freidlin, L. Kh.
II. Balandin, A. A.
III. Title: Promoters...

Office of Technical Services

Vereshchagin, L. F., Zelinskii, N. D. and others.
CHEMICAL REACTIONS AT HIGH TEMPERATURES
AND HIGH PRESSURES. IV. EXPLOSIVE DECOMPO-
SITION OF CYCLOPENTADIENE UNDER HIGH
PRESSURES. [1961] 8p. 11 refs.
Order from OTS or SLA \$1.10

61-18892

Condensed trans. of *Akademiyu Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya*, 1947, p. 469-478.

DESCRIPTORS: *Cyclopentadiene, Pentadienes,
*Cyclohexadienes, Decomposition, *Explosions, Shock
waves, Detonation, Chemical reactions, Temperature,
Pressure.

Equipment was constructed for compression of organic
substances at a maximum rate of 4000 atm/4 sec
and permitting a thermocouple to be kept inside the tube
with the sample. With this apparatus the mechanism of
(Chemistry--Physical, TT, v. 6, no. 11) (over)

61-18892

I. Vereshchagin, L. F.
II. Zelinskii, N. D.
III. Title: Explosive...

Office of Technical Services

Zelinskii, N. D., Arluzov, Yu. A., and Batuev, M. I.
CONTACT CONVERSIONS OF 1,3-CYCLOHEXADI-
ENE AND 1,4-CYCLOHEXADIENE. [1961] 7p.
17 refs.

Order from OTS or SLA \$1.10

61-18891

Trans. of Akademiya Nauk SSSR. Otdelenie Khimic-
heskikh Nauk. Izvestiya, 1945, p. 486-491.

DESCRIPTORS: *Cyclohexadienes, Chemical reactions,
Beryllium compounds, *Oxides, Catalysts, Catalysis,
Hydrogenation, Cyclohexenes, Methyl radicals, Cyclo-
pentenes, Cyclopentanes, Cyclohexanes, Benzenes,
Hexanes, Pentenes, Pentanes, Raman spectroscopy.

Contact conversions of two cyclohexadienes were stud-
ied in the presence of beryllium oxide at 400°. The
principal products from 1,3- and 1,4-cyclohexadiene,
respectively are as follows: benzene, 65 and 82 mole
per cent; methylcyclopentene isomers, 28 and 12 mole
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-18891

I. Zelinskii, N. D.
II. Arluzov, Yu. A.
III. Batuev, M. I.

187301

Office of Technical Services

Nesmeyanov, A. N. and Kocheshkov, K. A.
SYNTHESIS OF METALLOORGANIC COMPOUNDS BY
METHOD OF DOUBLE DIAZONIUM SALTS. XVII.
SYNTHESIS OF TETRAPHENYLLEAD BY THE AC-
TION OF METALLIC LEAD POWDER ON PHENYL-
DIAZONIUM BOROFUORIDE. [1963] 5p. 10 refs.
Order from OTS or SLA \$1.10 63-16035

Trans. of Akademiya Nauk SSSR, Otdelenie Khimiche-
skikh Nauk, Izvestiya, 1945, no. 5, p. 522-524.

DESCRIPTORS: *Phenyl radicals, *Lead compounds,
*Boron compounds, *Fluorides, Lead, Metal powders,
Azo radicals, *Metalorganic compounds, Synthesis
(Chemistry).

It is shown that through the decomposition of phenyl-
diazonium borofluoride with metallic lead powder
tetraphenyllead is obtained. (Author)
(Chemistry--Organic, TT, v. 10, no. 9)

63-16035

1. Title: Phenyl-diazonium
borofluoride
2. Title: Tetraphenyllead
- I. Nesmeyanov, A. N.
- II. Kocheshkov, K. A.
- III. Title: Synthesis . . .

Office of Technical Services

IAN, der Khin

6, pp 53-9-80 (1945)

Homologous Groups of Phases

E. S. Makarov

cc Digest #X —
Copy in file

The Solubility of Ammonium Nitrate in
Organic Compounds, by O. K. Khayshbashev,
21 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim
Nauk, No 6, 1945, pp 587-596.

SLA 60-18538

Sci

203, 228

Jun 62

IZVESTIYA AKADEMII NAUK SSSR, OTDELENIE KHIMICHESKIH NAUK

1945 N6 P603-608	70-21058 <*>
1947 N6 P606-616	62-11677 <=>
1950 N2 P137-151	70-22638 <*>
1952 N6 P1075-1081	62-25279 <*>
1958 N5 P626-628	70-21047 <*>
1958 N10 P1184-1191	70-21048 <*>
1958 N10 P1254-1263	70-21049 <*>
1958 N11 P1303-1309	70-21050 <*>
1959 N1 P110-114	70-21051 <*>
1959 N2 P350-352	70-21052 <*>
1959 N7 P1169-1176	70-21053 <*>
1959 N10 P1859-1861	70-21054 <*>
1960 N8 P1520-1521	70-10554-078 <*>

ORDER FROM NTC

Studies in the Field of the Polycondensation
Reaction, Pt. 6. Acidolysis and Aminolysis of
Polyamides, by V. V. Korshak, V. A. Zaryutina,
8 pp.

RUSSIAN, per, ~~Iz Ak Nauk SSSR. Otdel Khim Nauk.~~
No 6, 1945, pp 609-616.

Assoc Tech Sr
84226R

Sci - Chem
Apr 59
OTS I, No 5

85, 9/6

Makarova, L. G. and Nesmeyanov, A. N.
TWO TYPES OF DECOMPOSITION OF DIPHENYL-
IODONIUM SALTS. Pt. 1 of Decomposition and For-
mation of Onium Salts and Synthesis of Heteroorganic
Compounds through Onium Compounds. [1960] 10p.
Order from ATS \$14.90 ATS-91N47R

Trans. of Akad[emiya] Nauk SSSR, Otdel[eniya],
Khim[icheskii] Nauk, Dvesti[ya] 1945, no. 6,
p. 617-626.

151536

PHI
ATC
RJ-3248
(Chemistry--Organic, TT. v. 5, no. 8)

61-12752

1. Onium compounds--
Chemical reactions
2. Onium compounds--
Decomposition
3. Title: Heteroorganic
compounds

1. Makarova, L. G.
- II. Nesmeyanov, A. N.
- III. ATS-91N47R
- IV. Associated Technical Serv-
ices, Inc., East Orange,
N. J.
- V. Title: Decomposition ...

Office of Technical Services

Reactivity of Halogenobenzenes in Catalytic
Hydrolysis in the Vapor Phase, by L. Kh. Freidlin,
A. A. Balandin, G. A. Fridman.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
1945, pp 655-663.

OTS 61-18888

Sci

Mar 62

189,552

~~Link~~ Vol VII, No 2

61-18895

Arbuzov, Yu. A., Batuev, M. I., and Zelinskii, N. D.
CONTACT ISOMERIZATION OF CYCLOHEXENE.
[1961] 5p. 12 refs.

Order from OTS or SLA \$1.10

61-18895

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1945, p. 665-668.

DESCRIPTORS: *Cyclohexenes, Isomeric transitions,
*Beryllium compounds, *Oxides, Catalysts, Catalysis, Raman spectroscopy.

Contact isomerization of cyclohexene under the action of beryllium oxide was studied at 400°. A Raman spectroscopical study of the reaction products showed them to consist of 1-methyl-1-cyclopentene, 3-methyl-1-cyclopentene, methyl-cyclopentane and unchanged cyclohexene, the first of the above-mentioned compounds. (Chemistry--Organic, TT, v. 6, no. 10) (over)

I. Arbuzov, Yu. A.
II. Batuev, M. I.
III. Zelinskii, N. D.

18895

Office of Technical Services.

Eldus, Ya. T., Elagina, N. V., and Zelinskii, N. D.
SYNTHESIS OF SOME OLEFINIC HYDROCARBONS
FROM PRIMARY ALKYL MAGNESIUM HALIDES AND
CARBON MONOXIDE UNDER PRESSURE. [1961] 4p.
6 refs.

Order from OTS or SLA \$1.10

61-18885

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya; 1945, p. 672-674.

DESCRIPTORS: *Hydrocarbons, *Ethylenes, Synthesis,
*Alkyl radicals, *Magnesium compounds, *Halides,
*Carbon compounds, *Monoxides, *Chlorides, Chemi-
cal reactions.

Preparation of 4-nonene and 2,8-dimethyl-4-nonene was
carried out as examples of the synthesis of olefins with
odd numbers of carbon atoms from carbon monoxide
and Grignard reagents containing primary alkyls. By
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-18885

I. Eldus, Ya. T.
II. Elagina, N. V.
III. Zelinskii, N. D.

Office of Technical Services

JAN, OKN # 1 pp 47-56 (1946)

Kinetics of Exothermic Catalytic Flow
Reactions I.

O.M. Todes

Done by Def Res Bd.
Canada X334

See 1 Aug 50 listing

~~HEP~~ # 275
12/20/50

RT-111

Liberman, A. L. and Kazanskii, B. A.
PREPARATION OF 1,1-DIMETHYLCYCLOHEXENES,
1,1-DIMETHYLCYCLOHEXANE AND OF 3,3-DI-
METHYL-1-CYCLOHEXANOL FROM DIMEDONE.
[1961] 5p. 10 refs.
Order from OTS or SLA \$1.10

61-20110

Condensed trans. of Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya, 1946, p. 77-82.

DESCRIPTORS: *Cyclohexenes, *Cyclohexanols,
*Cyclohexanes, Hexanes, Methyl radicals, Synthesis,
Hydantoins, Pentanones, Hydrogenation.

Hydrogenation of 5,5-dimethyl-1,3-cyclohexanedione
(dimedone) in the presence of platinized carbon
activated with chloroplatinic acid in organic solvents,
such as ether, dioxane, acetic acid, yields 10-20% of
1,1-dimethylcyclohexane, and 40-60% of 3,3-di-
(Chemistry--Organic, TT, v. 7, no. 7)

(over)

61-20110

I. Liberman, A. L.
II. Kazanskii, B. A.

Office of Technical Services

Arbuzov, A. E. and Abramov, V. S.
ACTION DES ÉTHERS CHLORO-ET BROMOMALO-
NIQUES SUR LES SELS DE L'ACIDE DIÉTHYLPHOS-
THOREUX (Action of Chloro- and Bromomalonate
Ester on Salts of Diethyl Phosphorous Acid). 7p
2 refs FR-783,
Order from OTS, ETC or CNRS \$0.80 62-269064

Trans. in French of ~~Academiya Nauk SSSR. Otdelenie~~
~~Khimicheskikh Nauk, Izvestiya, 1946, no. 2,~~
p. 223-224.

DESCRIPTORS: *Malonic acids, Esters, Chlorine
compounds, Bromine compounds, Phosphites, Ethyl
radicals, radicals, *Phosphorus acids, *Phosphorus
compounds (Organic).

(Chemistry--Organic, TT, v. 10, no. 10)

62-26964

1. Title: Bromomalonate
2. Title: Chloromalonate
3. Title: Diethylphosphite
- I. Arbuzov, A. E.
- II. Abramov, V. S.
- III. FR-783
- IV. Centre National de la
Recherche Scientifique

Office of Technical Services

Crystal Chemistry of Aromatic Compounds. Part I.
Packing of Molecules in Crystals of Organic
Compounds, by A. I. Kitaigorodskiy.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk
No 3, pp 265-274, 1946.

Insdoc
Nat'l Phys Lab of India
Hillside Rd
New Delhi 12
India.

Sci - Chemistry
Aug 56 CTS/dex

37,539

JAN, ORHN

#4 pp 381-89 (1946)

Kinetics of Catalytic Flow Reactions. I.

S. Z. Roginski
O. M. TodesDone by Def Res Bd.,
Canada (X-333)

See 1 Aug '50 listing

AEC Ser # 248

Brookhaven

RT-1908
SLA 61-17702

Freidlin, L. Kh., Balandin, A. A. and others.
CONVERSION OF ARYL HALIDES AND ELIMINATION
OF THE AROMATICALLY BOUND HALOGEN WITH
STEAM. [1963] 15p. 9 refs.
Order from OTS or SLA \$1.60

63-18252

63-18252

(131P) 63-20468
Trans. of Akademiya Nauk SSSR, Otdelenie Khimicheskikh Nauk, Izvestiya, 1946, no. 4, p. 439-446.

DESCRIPTORS: *Benzene derivatives, *Halides,
*Chlorides, *Elimination reactions, *Steam, *Catalysis,
*Copper catalysts, Chemical reactions.

A new course was found for the catalytic reaction of the interaction of aryl halides with steam, which leads to the elimination of the halogen. A scheme of the process is proposed which allows one to explain and predict a number of its characteristics. The influence of various factors on the reaction was investigated.
(Author)

(Chemistry--Physical, TT, v. 10, no. 11)

I. Title: Phenyl halides
I. Freidlin, L. Kh.
II. Balandin, A. A.

Office of Technical Services

Eidus, Ya. T.

STUDY OF CATALYSTS FOR HYDROGENATION OF
CARBON MONOXIDE BY COMBINED USE OF
DYNAMIC AND STATIC METHODS. COMMUNICA-
TION 4: COMPARATIVE STUDY OF KINETICS OF
CARBIDE FORMATION AND HYDROGENATION OF
CARBON MONOXIDE OVER Co, Ni AND Fe
CATALYSTS. [1963] 12p. (figs. omitted) 8 refs.
Order from OTS or SLA \$1.60 63-18254

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. [Izvestiya] 1946, no. 4, p. 447-453.
Another trans. is available from OTS or SLA \$1.10
as 61-20115 [1961] 7p.

DESCRIPTORS: *Carbides, *Carbon compounds,
*Monoxides, Hydrogenation, *Iron catalysts, *Cobalt
catalysts, *Nickel catalysts, Reaction kinetics,
Catalysts.
(Chemistry--Physical, TT, v. 10, no. 11)

63-18254

I. Eidus, Ya. T.
II. Title: Comparative...

Science Museum

50/0514 (G. Brit)

AGC TR 465

Office of Technical Services

Mamedaliev, Yu. G.
ALKYLATION OF BENZENE WITH PROPENE IN
THE PRESENCE OF ALUMINOSILICATES. [1961] 4p.
5 refs.

Order from OTS or SLA \$1.10

61-20111

Trans. of Akademiya Nauk SSSR. Otdelenie Khim-
icheskikh Nauk. Izvestiya, 1946, p. 458-460.

DESCRIPTORS: *Benzenes, *Alkyl radicals, Propenes,
Chemical reactions, Aluminum compounds, Silicates,
Clay, Catalysts, Catalysis.

Experiments of alkylation of benzene with a gaseous
mixture containing 17-19% propane and around 77%
propene in the presence of activated gumbrin clay are
reported. Under 40 atm pressure at an hourly space
velocity of 0.5 and a mole ratio of benzene to propene
of 1:0.45 most of the benzene reacted at 350° was con-
(Chemistry--Organic, TT, v. 7, no. 7) (over)

61-20111

I. Mamedaliev, Yu. G.

Office of Technical Services

Todes, O. M.
DE KINETICA VAN KATALYTISCHE REACTIES IN
EEN DOORSTROOMSYSTEEM. II. DE DYNAMICA
DER PROCESSEN OVER EEN VEROUDERENDE KATA-
LYSATOR. (Kinetics of Exothermal Catalytic Reac-
tions in Flow. II. Dynamics of Processes on Aging
Catalysts). 9p. 3 refs. MTWL: 6. (text in Dutch).
Order from OTS or ETC \$1.55 61-17705

Trans. of Akademiya Nauk SSSR. Otdelenie Khimiches-
kikh Nauk. Izvestiya, 1946, p. 483-488.

DESCRIPTORS: *Catalysts, Aging, Poisoning, Pro-
cessing.

61-17705

- I. Todes, O. M.
- II. MTWL-6
- III. Stichting Moelijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Shekhter, A. B., Roginskii, S. Z., and
Zakharova, S.
ELECTRONEN-MICROSCOPISCH ONDERZOEK VAN
ROOKNEERSLAGEN (An Electron Microscopic
Investigation of Smoke Deposits). 9p. 3 refs.
MTWL: 26. (text in Dutch).
Order from OTS or ETC \$1.55

61-17680

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1946, p. 491-495.

DESCRIPTORS: *Metallic smoke deposits, Electron
microscopy, Particles, Structure.

61-17680

I. Shekhter, A. B.
II. Roginskii, S. Z.
III. Zakharova, S.
IV. MTWL-26
V. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Balandin, A. A., Bogdanova, O. K., and
Shcheglova, A. P.
KINETIEK VAN DE DEHYDRERING VAN BUTEEN
OVER EEN CHROOMKATALYSATOR (Kinetics of the
Dehydrogenation of Butylene on a Chromium Catalyst)
23p, 12 refs. MTWL: 11. (text in Dutch).
Order from OTS or ETC \$1.91 61-17695

Trans. of Akademiya Nauk SSSR, Otdelenie Khimi-
cheskikh Nauk, Izvestiya, 1946, p. 497-512.

DESCRIPTORS: *Hydrogenation, Chromium, Catalysts,
*Butenes.

61-17695

- I. Balandin, A. A.
- II. Bogdanova, O. K.
- III. Shcheglova, A. P.
- IV. MTWL-11
- V. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

OTS 61-17695

Office of Technical Services

61-20109

Karavaev, N. M., Blonskaya, A. L., and
Protasova, A. M.
INVESTIGATION OF ANTHRACENE OIL FROM
PYROLYSIS OF PETROLEUM PRODUCTS. [1961] 6p.
12 refs.
Order from DTIC or SLA \$1.10

61-20109

Trans. of Akademiya Nauk SSSR, Otdelenie
Khimicheskikh Nauk, Izvestiya, 1946 [no. 4]
p. 553-557.

DISCRIPTORS: *Petroleum, *Kerosene, Pyrolysis,
Anthracenes, Oils, Chemical analysis, *Phenanthrenes,
Determination

In an investigation of the anthracene oil obtained by py-
rolysis of petroleum products pyrene was found and
isolated from all fractions boiling within 160-200°
(Chemistry--Analytical, TT, v. 6, no. 11) (over)

I. Karavaev, N. M.
II. Blonskaya, A. L.
III. Protasova, A. M.

151

Office of Technical Services

JAN, OKN

#5? pp 485-486 (1946)

Kinetics of Catalytic Flow Reactions. Part II.

O.M. Todes

Weil he

Done by Def Res Bd,
Canada

See 1 Aug 50 listing

Balandin, A. A., Bogdanova, O. K., and
Shcheglova, A. P.
THE KINETICS OF DEHYDROGENATION OF
BUTYLENE ON A CHROMIUM CATALYST. [1961]
21p.
Order from ATS \$29.95

ATS-00N54R

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie]
Khim[icheskikh] Nauk. [izvestiya] 1946, no. 5,
p. 497-513.

DESCRIPTORS: *Butenes, *Dehydrogenation, *Chrom-
ium catalysts, Catalysts.

(Chemistry--Organic, TT, v. 6, no. 11)

61-25549

- I. Balandin, A. A.
- II. Bogdanova, O. K.
- III. Shcheglova, A. P.
- IV. ATS-00N54R
- V. Associated Technical
Services, Inc., East
Orange, N. J.

288096

Office of Technical Services

Synthesis of Carbazole-Condensed Systems From
a- and a'-Aminonicotines, Part VI, Reaction of
a-Aminonicotine With α -Bromoisobutyric Ester,
by M. S. Kondakova, Ya. L. Gol'dfarb

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, 1946, pp 523-528.

Assoc Tech Sv 65F2R

Scientific - Chemistry
CTS/DEX

4090

Resolution of ²α-aminonicotine into Antipodes,
by Ya. L. Gol'dfarb, L. M. Smorgonskiy,

RUSSIAN, bimo per. Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, 1946, p 557.

Assoc Tech Sec, New Jersey
71F2R

Scientific - Chemistry

10,675

V
Crystal Chemistry of Aromatic Compounds. Pt IV.
Geometrical Analysis of the Arrangement of Molecules
in a Crystal, by A. I. Kitaigorodskiy.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, Vol VI,
1946, pp 587-600.

36,108

Insdoc

Nat Phys Lab of India

Hillside Rd

New Delhi-12, India

Scientific - Chemistry

Jun 56/dex

Shulkin, N. I., Novikov, S. S., and Tulupova, E. D.
OVER DE INVLOED VAN ONVERZADIGDE KOOL-
WATERSTOFFEN OP DE DEHYDRERENDE EIGEN-
SCHAPPEN VAN DE PLATINA-KATALYSATOR (Effect
of Unsaturated Hydrocarbons on the Dehydrogenating
Properties of Platinum Catalysts). 12p. 12 refs.
MTWL: 35. (text in Dutch).
Order from OTS or ETC \$1.85

61-17669

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1947, no. 1, P. 89-95.

DESCRIPTORS: *Platinum, *Catalysts, Hydrocarbons,
*Dehydrogenation.

61-17669

- I. Shulkin, N. I.
- II. Novikov, S. S.
- III. Tulupova, E. D.
- IV. MTWL-35
- V. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

On the Esters of Cacodylphosphinic Acid, by
G. Kamy, O. N. Belorossova, 7 pp. UNCLASSIFIED

RUSSIAN, bino per. Iz Ak Nauk. Otdel Khim Nauk, No 2,
Moscow, 1947.

ID GSUSA F-5106

Scientific - Chemistry

Feb CTS PA877

14,427

IZV AK NAUK KHIM No 2

Feb 1947

6 pp

"Decomposition and Formation of Onium Salts and Synthesis of Organo-Elemental Compounds through Onium Compounds"

A. N. Nesmeyanov, L. G. Makarova

Done by Nat'l Inst of Health
copy in file FDD X-21

8T2

Kagan, M. Ya., Lyubarskii, G. D., and
Podurovskaya, O. M.
OVER HET MECHANISME VAN DE KATALYTISCHE
DIVINYL-SYNTHESE UIT AETHYLALCOHOL
(Mechanism of the Catalytic Synthesis of Divinyl from
Ethyl Alcohol). 13p. 6 refs. MTWL: 25. (text in Dutch)
Order from OTS or ETC \$1.85 61-17679

Trans. of Akademiya Nauk SSSR, Otdelenie Khimicheskikh Nauk . Izvestiya, 1947, p. 173-180.

DESCRIPTORS: *Ethanol, *Butadienes, Synthesis,
Catalysis, Aluminium compounds, Oxides.

61-17679

I. Kagan, M. Ya.
II. Lyubarskii, G. D.
III. Podurovskaya, O. M.
IV. MTWL-25
V. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Kazanskii, B. A. and Rumyantseva, Z. A.
KATALYTISCHE HYDRERING VAN CYCLOPENTAAN-
KOOLWATERSTOFFEN MET OPENING VAN DE RING.
VII. HYDRERING VAN METHYLCYCLOPENTAAN IN
TEGENWOORDIGHEID VAN GEPLATINEERDE KOOL
EN VAN NIKKEL, NEERGESLAGEN OP ALUMINIUM-
OXYDE (Catalytic Hydrogenation of Cyclopentane
Hydrocarbons with Ring Opening. VII. Hydrogenation
of Methylcyclopentane in the Presence of Platinized
Carbon and of Nickel on Aluminium Oxide). 12p. 7 refs
MTWL: 27. (text in Dutch).
Order from OTS or ETC \$1.85

61-17681

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1947, p. 183-190.

DESCRIPTORS: *Cyclopentanes, Methylradicals,
Coal, Platinum, Nickel, Oxides, Catalysts, *Hydro-
genation, Aluminium compounds.

61-17681

- I. Kazanskii, B. A.
- II. Rumyantseva, Z. A.
- III. MTWL-27
- IV. Stichting Moelijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Kazanskii, B. A. and Liberman, A. L.
DE KATALYTISCHE OMZETTINGEN VAN 1,1,-
DIMETHYLCYCLOHEXAAN IN TEGENWOORDIGHEID
VAN GEPLATINISEERDE KOOL (Contact Catalytic
Transformations of 1,1-dimethylcyclohexane in the
Presence of Platinized Carbon) 17p. 12 refs.
MTWL: 32 (text in Dutch).
Order from OTS or ETC \$1.85 61-17676

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk, Izvestiya, 1947, no. 3, p. 265-275.

DESCRIPTORS: *Cyclo hexanes, Methylradicals,
Carbon, Platinum, *Benzenes, Catalysts.

61-17676

- I. Kazanskii, B. A.
- II. Liberman, A. L.
- III. MTWL-32
- IV. Stichting Moellijk
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Investigation in the Field of Anthracene
Derivatives, VI., by D. P. Fedorov, 25 handwritten
pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel
Khim Nauk, No 3, May/Jun 1947, pp 309-315.

FDD NT-24
CIA/PDD/K-1459

Scientific - Chemistry

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IAN, OTKN

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pp 291-398 (1947)

Blast Furnace Smelting of Titanium-Magnetic
Ores with Basic Slag

I. V. Shmanenkov +
K. H. Zaghirov

pp 291-398 # 2210

~~SECRET~~

ST-443 (b)

~~SECRET~~~~SECRET~~

Failures of Castings Caused by Shrinkage Stresses
During Crystallization, as Related to Composition,
by A. A. Bochvar.

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No 3, 1947, pp 349-355.

Language Sv Bu

Sci - Chem

Nov 60

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IZV AKAD NAUK SSSR, OTD KHIM NAUK No 5, 1947, 11 pp

"Nikolay Aleksandrovich Morozov as a Chemist"

S. I. Vol'fkovich

Proj 1940

T-55-B7

U-115/49

One page extract translation loaned to
original requestor.

MOROZOV died in 1946.

53T10

Chlorides of Ruthenium Hydrates, by V. I.
Gorenykin, T. D. Avtokratova.

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No 5, 1947, pp 427-434.

Research Information Service

R 562

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Jan 56 CTS/DEX

The Chemical Properties of Benzenes With Haloid
Methane Substitutions, by A. F. Kapustinskiy,
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Jan 56 CTS/DEX

The Hydrogenation of Cyclic Hydrocarbons. Part VIII
The Hydrogenation of Trans-1, 2- and Trans-1,3-di-
methylcyclopentane in the Presence of Platinum-
Activated Carbon, by B. A. Kazanskiy, Z. A.
Rumiantseva, M. I. Batuev.

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No 5, 1947, pp 473-482.

Research Information Service

R 565

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Scientific - Chemistry

Jan 56 CFB/DEX

The Hydrogenation of Cyclic Hydrocarbons. Part IX.
The Hydrogenation of 1,1-Dimethyl-Cyclopentane in
the Presence of Platinum-Activated Carbon, by
B. A. Kazanskiy, Z. A. Rumiantseva, M. I. Batuev.

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No 5, 1947, pp 483-493.

Res Info Sv R.566

Sci - Chemistry
Jan 1956/CTS No 77

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Production of Acetylene. No 54. Production of Vinyl-
ethylene Carbinol, by I. N. Nazarov, I. V. Torgov,.

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Res Info Sv, R.567
53 Nassau St

Scientific - Chemistry NY

Feb 56 31,049

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The Influence of Sodium and Magnesium Ethers
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Arbuzov.

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No 5, 1947, pp 501-508.

Res Info Sv R.568

Sci - Chemistry
Jan 1956/CTS No 77

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53 Nassau St., New York 5, N.Y.

Investigation of Organic Phosphates, VII.
The Reaction Between Glycol and the Menshutken
Chloride Anhydrides, by P. A. Rossiyskaya,
M. I. Kabachnik.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, 1947, pp 509-514.

Research Information Service
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Scientific - Chemistry Jan 56 CTS/DEK

TT-63-20182

Freidlin, L. [Kh.] Balandin, A. A., Lebedeva, A. I.,
and Fridman, G. A.

INVESTIGATION OF THE CATALYTICAL SUBSTITU-
TION OF HALOGEN BY HYDROXYL IN HYDRO-
CARBONS OF AROMATIC SERIES. [1963] [12p]
17refs. N64-11004.

Order from OTS, SLA, or ETC \$1.60 TT-63-20182

Trans. of [Akademiya Nauk SSSR, Otdelenie
Khimicheskikh Nauk]. Izvestiya, 1947 [no. 5]
p. 515-522. (Abstract available)

DESCRIPTORS: *Phenols, Synthesis (Chemistry),
*Benzenes, *Chlorides, Substitution reactions,
*Catalysis, *Copper catalysts, Silicon compounds,
Dioxides, Gels, Purification.

Reaction of catalytic conversion of chlorobenzene into
phenol with steam in the presence of silica gel impreg-
nated with various copper compounds was studied. A
(Chemistry--Organic, TT, v. 11, no. 7) (over)

- I. Title: Phenyl chloride
- I. Freidlin, L. Kh.
- II. Balandin, A. A.
- III. Lebedeva, A. I.
- IV. Fridman, G. A.
- V. N64-11004

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Ternary System Al-Mg-Li. I. Method of Work
With Li. The Binary Systems, by F. I.
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ACSI I-0453
ID 2180114

Sci - Chem

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Scientific - Geophysics

Aug 1951 CTS

The Ternary System: Aluminum-Magnesium-Lithium
Report II. Phase Diagrams of Auxiliary Cross
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DC RBIC-32

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